

SECTION 202
ROADWAY EXCAVATION

202.1 GENERAL

Roadway excavation shall consist of excavation involved in the grading and construction of roadways, except structure excavation, trench excavation, and any other excavation separately designated.

202.2 REFERENCES

202.2.1 This publication Section 204

202.3 UNSUITABLE MATERIAL

202.3.1 Unsuitable materials include all material that contains debris, roots, organic matter, stones or boulders too large to be used in the intended construction, or other materials that are determined by the ENGINEER to be unsuitable. Otherwise suitable materials which are unsuitable due to excess moisture content will not be classified as unsuitable material unless it cannot be dried by manipulation, aeration or blending with other materials satisfactorily as determined by the ENGINEER.

202.3.2 Material that is unsuitable for the intended use shall be excavated and removed from the site or otherwise disposed of as approved by the ENGINEER.

202.3.3 The removal and disposal of such unsuitable material will be paid for as roadway excavation for the quantities involved.

202.4 ROCK EXCAVATION

202.4.1 Rock excavation shall consist of igneous, metamorphic and sedimentary rock, naturally in place, which cannot be excavated without blasting or the use of rippers, and all boulders or other detached stones having a volume of one (1) cubic yard or more, as determined by physical measurements or visually by the ENGINEER. Where any portion of the excavation contains strata classified as Rock Excavation and the various strata are parted with strips or strata not classified as Rock Excavation which constitute twenty-five (25) percent or less of the total thickness of the rock plus non-rock layers, the entire volume of the combined layers shall be paid as Rock Excavation. Removal of Surface boulders in excess of 1 cubic yard in volume shall be paid for under Clearing and Grubbing, unless specifically identified as Rock Excavation.

202.4.2 OVERSHOOTING: Excessive blasting will not be permitted. Material outside the authorized cross section which may be shattered or loosened because of blasting shall be removed at the CONTRACTOR'S expense. The CONTRACTOR shall discontinue any method of blasting which leads to overshooting and is dangerous to the public or destructive to property or to natural features.

202.5 SLIDES AND SLIPOUTS

202.5.1 Material outside of planned roadway or ditch slopes which in the opinion of the ENGINEER is unstable and constitutes potential slides, material which has intruded into the roadway channel or ditch, and material which has escaped from new or old embankments shall be excavated and removed. The material shall be excavated to designated lines or slopes either by benching or in such a manner as approved by the ENGINEER. Such material shall be used in the construction of the embankments or disposed of as approved by the ENGINEER.

202.5.2 The removal and disposal of slide and slipout material as above specified not resulting from overshooting as defined in Subsection 202.4 will be paid for at the contract price for excavation for the quantities involved. However, if due to the character of the work the removal and disposal of such material is not properly compensable at the contract price for roadway excavation, the work may be paid for as extra work provided the CONTRACTOR requests in writing such payment prior to performing the work. Authorization for the work will be by change order.

202.5.3 Only those quantities of slide or slipout material which are actually removed as ordered by the ENGINEER will be approved for payment.

202.5.4 The above provisions shall not be so construed as to relieve the CONTRACTOR from his obligation to maintain all slopes true and smooth.

202.6 SLOPES

202.6.1 Excavation slopes shall be finished in conformance with the lines and grades shown on the plans. Debris and loose material shall be removed. When completed, the average plane of the

slopes shall conform to the slopes indicated on the plans and no point on the completed slopes shall vary from the designated plane by more than 6 inches measured at right angles to the slope. Except where excavation is in rock no point shall vary more than 2 feet from the designated plane of the slope. In no case shall any portion of the slope encroach on the construction area.

202.6.2 Tops of excavation slopes and ends of excavations shall be rounded as shown on the plans or as directed by the ENGINEER, and these quantities will not be included in the payment for excavation. This work will be considered as a part of finishing slopes, and no additional compensation will be allowed therefor.

202.6.3 Embankment slopes shall be finished in conformance with lines and grades shown on the plans. When completed, the average plane of embankment slopes shall conform to slopes indicated on the plans, and no point on completed slopes shall vary from the designated plane by more than 6 inches measured at right angles to the slope.

202.7 SURPLUS MATERIAL

202.7.1 Unless otherwise shown on the plans, specified in the Supplementary Specifications, or approved by the ENGINEER, no surplus excavated material shall be disposed of within the construction area. The CONTRACTOR shall make all arrangements for disposal of the material at offsite locations as may be approved by the ENGINEER and shall, upon request, file with the ENGINEER the written consent of the owner of the property upon which he intends to dispose of such material.

202.7.2 If the quantity of surplus material is shown in the plans or specified in the Supplementary Specifications, the quantity shown or specified is approximate only. The CONTRACTOR shall satisfy himself that there is sufficient material available for the completion of the embankments before disposing of any indicated surplus material inside or outside the area. Any shortage of material caused by premature disposal of surplus material by the CONTRACTOR shall be replaced by him, and no compensation will be allowed the CONTRACTOR for such replacement.

202.8 SELECT MATERIAL

202.8.1 Select material shall be considered as material which can be

compacted to the densities specified in Section 204.

202.8.2 Select material encountered in excavation within the right-of-way shall be used for finishing the top portion of the roadbed or for constructing shoulders or used for structure backfill or used as shown on the plans or as directed by the ENGINEER.

202.8.3 Where practicable, select material shall be hauled directly from excavation to its final position in the construction prism and compacted in place, and such work will be paid for at the contract price for excavation.

202.8.4 Select material shall remain in place until it can be placed in final position as provided above, except, if ordered in writing by the ENGINEER, select material may be excavated and stockpiled at locations designated by him and later placed in final position in the construction prism.

202.8.5 Excavating select material and stockpiling, if required, will be paid for at the contract price for roadway excavation. Removing the select material from stockpiles and placing it in final position in the roadway prism will again be paid for at the contract price for roadway excavation, except that the quantities to be paid for will be determined from measurements of the material in the stockpiles prior to removal. No payment for stockpiling of select material will be made unless such stockpiling is ordered by the ENGINEER.

202.8.6 Topsoil placed along the tops of slopes in connection with erosion control work will not be considered as stockpiled material when determining pay quantities of earthwork.

202.9 MEASUREMENT AND PAYMENT

202.9.1 All earthwork shall be measured by the cubic yard in place at the time of excavation. The following earthwork operations will be measured as excavation for the quantities of material involved.

202.9.1.1 Excavating the construction area including public and private road approaches, connections, and driveways; excavating unsuitable material when shown on the plans or specified in the Supplementary Specifications; excavating slides and slipouts not resulting from over-shooting; excavating surplus material; excavating selected material and topsoil from within the limits of project and

removing such materials from stockpiles when stockpiling is ordered; and excavating local borrow.

202.9.2 Excavation beyond the authorized cross section will not be included in measurement or payment.

202.9.3 Rock excavation will be paid by the cubic yard in place, prior to start of construction and measured to limits of excavation specified on plans. No compensation will be made to the CONTRACTOR for excess rock excavation due to overshooting, nor for the cost of backfilling voids or depressions resulting from overshooting.